OIPE JC177
SEP 29 2004
PATENT & TRADEMARK OFFICE

A-9837E
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Lars Ivar SAMUELSON et al.

Appln. No.: 10/613,071 Group Art Unit: 2811

Filed: July 7, 2003

For: NANOSTRUCTURES AND METHODS FOR MANUFACTURING THE SAME

* * *

INFORMATION DISCLOSURE STATEMENT

Commissioner of Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, and without any assertion as to materiality or prior art effect, the documents listed on the attached Form PTO-1449 are hereby cited.

Documents AA-AB, AE, AJ, AO, QD, and TH-TK on the attached List were cited in the International Search Report (copy attached) of counterpart PCT Application No. PCT/GB2004/000037.

Respectfully submitted,

By: _____
Mitchell W. Shapiro
Reg. No. 31,568

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September 29, 2004

FORM PTO-1449 LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9837E	Appln. No. 10/613,071
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date July 7, 2003	Group 2811

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Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	BA	6,190,634	2/20/01	Lieber et al.	423	439	
	BB	6,159,742	12/12/00	Lieber et al.	436	164	
	BC	5,997,832	12/7/99	Lieber et al.	423	249	
	BD	5,840,435	11/24/98	Lieber et al.	428	689	
	BE	5,252,835	10/12/93	Lieber et al.	250	492.1	

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	BF	WO 02/080280	10/10/02	WIPO			

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	BG	Duan, X., et al., "Laser-Assisted Catalytic Growth of Single-Crystal Compound Semiconductor Nanowires", Abstracts of Papers of the Amer. Chem., Soc., Vol. 219, March 26, 2000, pp. 676-Inor Part 1.
	BH	Duan, X. et al., "Laser Assisted Catalytic Growth of Semiconductor Nanowires for Nanoscale Electronic Optoelectronic Device Application", Abstracts of Papers of the Amer. Chem. Soc., Vol. 221, April 1, 2001, pp. 644-Inor Part 1.
	BI	Lieber, C., "Semiconductor Nanowires: Building Blocks for Nanoscale Science and Technology", Abstracts of Papers of the Amer. Chem. Soc., Vol. 222, August 1, 2001, pp. 383-Phys Part 2.
	BJ	Huang, Y., et al., "Integrated Optoelectronics Assembled from Semiconductor Nanowires", Abstracts of Papers of the Amer. Chem. Soc., Vol. 224, August 18, 2002, pp. 093-Phys - Part 2.
	BK	Hu, J. et al., "Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes", Acc. Chem. Res., Vol. 32, No. 5, February 20, 1999, p. 435-445.
	BL	Duan, X. et al., "General Synthesis of Compound Semiconductor Nanowires", Advanced Materials, Vol. 12, No. 4, January 1, 2000, pp. 298-302.
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	BN	Cui, Y., et al., "Diameter-controlled synthesis of single-crystal silicon nanowires", Applied Physics Letters, Vol. 78, No. 15, April 9, 2001, pp. 2214-2216.

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	AD	5,332,910	7/26/94	Haraguchi et al.	257	13	

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	AE	WO 01/84238	11/8/01	WIPO			

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	AF	Yasawa, M. et al, "Heteroepitaxial Ultrafine Wire-Like Growth of InAs on GaAs Substrates", Appl. Phys. Lett., Vol. 58, No. 10, March 11, 1991, pp. 1080-1082.
	AG	Haraguchi, K. et al., "GaAs p-n junction formed in quantum wire crystals", Applied Physics Letters, Vol. 60, No. 6, February 10, 1992, pp. 745-747
	AH	Yazawa, M., et al., "Effect of one monolayer of surface gold atoms on the epitaxial growth of InAs nanowhiskers", Applied Physics Letters, Vol. 61, October 26, 1992, pp. 2051-2053.
	AI	Yazawa, M., "Nanocolumns composed of GaAs-InAs jointed whiskers and SiO2 covers", Applied Physics Letters, Vol. 65, August 29, 1994, pp. 1157-1158
	AJ	Sato, T., "Site-controlled growth of nanowhiskers", Applied Physics Letters, Vol. 66, January 9, 1995, pp. 159-161.
	AK	Hiruma, K., et al., "Growth and optical properties of nanometer-scale GaAs and InAs whiskers", Applied Physics Review, Vol. 77, January 15, 1995, pp. 447-462.
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	AM	Hiruma, K. et al., "GaAs free-standing quantum-size wires", Journal of Applied Physics, Vol. 74, September 1, 1993, pp. 3162-3171.
	AN	Haraguchi, K., et al., "Polarization dependence of light emitted from GaAs p-n junctions in quantum wire crystals", Journal of Applied Physics, Vol. 75, April 15, 1994, pp. 4220-4225.
	AO	Hiruma, K., et al., "Self-organized growth of GaAs/InAs heterostructure nanocylinders by organometallic vapor phase epitaxy, Journal of Crystal Growth, Vol. 163, January 1, 1996, pp. 226-231.
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	CA	6,307,241	10/23/01	Awschalom et al.	257	421	
	CB	5,196,396	3/23/93	Lieber	505	1	
	CC	6,716,409	4/6/04	Hafner et al.	423	447	

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*	CE	Gudiksen M.S., et al., "Diameter-selective synthesis of semiconductor nanowires", J. Am. Chem. Soc., Vol. 122, August 22, 2000, pp. 8801-8802.
	CF	Gudiksen M., et al., "Size-Dependent Photoluminescence from Single Indium Phosphide Nanowires", Journal of Physical Chemistry B, Vol. 106, No. 16, March 30, 2002, pp. 4036-4039.
*	CG	Duan, X., et al., "Laser-Assisted Catalytic Growth of Single Crystal GaN Nanowires", Journal of Amer. Chem. Soc., Vol. 122, NO. 1, December 18, 1999, pp. 188-189.
	CH	Huang, Y., et al., "Gallium Nitride Nanowire Nanodevices", Nano Letters, Vol. 2, No. 2, January 11, 2002, pp. 81-82.
	CI	Lieber C., "Nanowire Superlattices", Nano Letters, Vol. 2, No. 2, January 25, 2002, pp. 82-82.
	CJ	Duan, X., et al., "Nonvolatile Memory and Programmable Logic from Molecule-Gated Nanowires", Nano Letters, Vol. 2, No. 5, May 1, 2002, pp. 487-490.
	CK	Cui, Y., et al., "High Performance Silicon Nanowire Field Effect Transistors", Nano Letters, Vol. 3, No. 2, January 1, 2003, pp. 149-152.
	CL	Zhong, Z., et al., "Synthesis of P-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices", Nano Letters, Vol. 3, No. 3, February 20, 2003, pp. 343-346.
*	CM	Hu, J., et al., "Controlled Growth and Electrical Properties of Heterojunctions of Carbon Nanotubes and Silicon Nanowires", Nature, Vol. 399, May 6, 1999, pp. 48-51.

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	DA	6,743,408	6/1/04	Lieber et al.	423	447.1	

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	DC	Duan, X., et al., "Indium phosphide nanowires as building blocks for nanoscale electronic and optoelectronic devices", Nature, Vol. 409, January 4, 2001, pp. 66-69.
	DD	Gudiksen M., et al., "Growth of nanowire superlattice structures for nanoscale photonics and electronics", Nature, Vol. 415, February 7, 2002, pp. 617-620.
	DE	Lauhon, L., et al., "Epitaxial Core-Shell and Core-Multishell Nanowire Heterostructures", Nature, Vol. 420, No. 6911, November 7, 2002, pp. 57-61.
	DF	Duan, X., "Single-nanowire electrically driven lasers", Nature, Vol. 421, January 16, 2003, pp. 241-244.
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	DH	Morales, A., et al., "A Laser Ablation Method for the Synthesis of Crystalline Semiconductor Nanowires", Science, Vol. 279, January 9, 1998, pp. 208-211.
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	DK	Wang, J., et al., "Highly Polarized Photoluminesence and Photodetection from Single Indium Phosphide Nanowires", Science, Vol. 293, No. 5534, August 24, 2001, pp. 1455-1457.
	DL	Cui Y., et al., "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species", Science, Vol. 293, August 17, 2001, pp. 1289-1292.

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	EB	WO 97/31139	8/28/97	WIPO			

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	EC	Huang, Y., et al., "Logic Gates and Computation from Assembled Nanowire Building Blocks", Science, Vol. 294, November 9, 2001, pp. 1313-1317.
	ED	Cui, Y., et al., "Doping and Electrical Transport in Silicon Nanowires", The Journal of Physical Chemistry B, Vol. 104, No. 22, May 11, 2000, pp. 5213-5216.
	EE	Gudiksen M., et al., "Synthetic Control of the Diameter and Length of Single Crystal Semiconductor Nanowires", The Journal of Physical Chemistry B, Vol. 105, April 18, 2001, pp. 4062-4064.
	EF	Morales, A. et al., "Rational Synthesis of Silicon Nanowires", INOR, 651, January 1, 2001.
	EG	Wong E., et al., "Nanobeam Mechanics: Elasticity, Strength, and Toughness of Nanorods and Nanotubes", Science, Vol. 277, September 26, 1997, pp. 1971-1975.
	EH	Dai, H., et al., "Synthesis and Characterization of Carbide Nanorods", Nature, Vol. 375, June 29, 1995, pp. 769-772.
	EI	Junno, T., et al., "Controlled manipulation of nanoparticles with an atomic force microscope", Applied Physics Letters, Vol. 66, June 26, 1995, pp. 3627-3629.
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	FB	WO 95/02709	1/26/95	WIPO			

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	FC	Borgstrom, M., et al., "High peak-to-valley ratios observed in InAs/InP resonant tunneling quantum dot stacks", Applied Physics Letters, Vol. 78, No. 21, May 21, 2001, pp. 3232-3234.
	FD	Thelander, et al., "Gold nanoparticle single-electron transistor with carbon nanotube leads", Applied Physics Letters, Vol. 79, No. 13, September 24, 2001, pp. 2106-2108.
	FE	Ohlsson B.J, et al., "Size-, shape-, and position-controlled GaAs nano-whiskers", Applied Physics Letters, Vol. 79, No. 20, November 12, 2001, pp. 3335-3337.
	FF	Bjork, M.T., et al., "One-dimensional heterostructures in semiconductor nanowhiskers", Applied Physics Letters, Vol. 80, No. 6, February 11, 2002, pp. 1058-1060.
	FG	Persson, M.P. et al., "Electronic Structure of Nanometer-Scale GaAs Whiskers", Applied Physics Letters, Vol. 81, No. 7, August 12, 2002, pp. 1309-1311.
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	FI	Panev, N., et al., "Sharp Exciton Emission From Single InAs Quantum Dots in GaAs Nanowires", Applied Physics Letters, Vol. 83, No. 11, September 15, 2003, pp. 2238-2240.
	FJ	Bjork, M.T., "Nanowire resonant tunelling diodes", Applied Physics Letters, Vol. 81, No. 23, December 2, 2002, pp. 4458-4460.

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	GC	Persson, A., "Oriented Growth of InAs-based Nanowhiskers", Diploma Work, Lund Institute of Technology, Lund University, May 29, 2001, pp. 1-48.
	GD	Ohlsson, J., "Semiconductor Hetero- and Nanostructures", Doctoral Thesis, Lund Institute of Technology, Lund University, November 23, 2001.
	GE	Thelander, C., "Quantum Devices from the Assembly of Zero-and One-Dimensional Building Blocks", Doctoral Thesis, Lund University, November 7, 2003.
	GF	Ohlsson, B., et al., "Anisotropic GaAs island phase grown on flat GaP: A stranski-Krastanow-formed corrugated surface", Journal of Applied Physics, Vol. 89, No. 10, May 15, 2001, pp. 5726-5730.
	GG	Magnusson, M., et al.,"Gold nanoparticles: Production, reshaping, and thermal charging", Journal of Nanoparticle Research, Vol. 1, January 1, 1999, pp. 243-251.
	GH	Samuelson, L., "Self-Forming Nanoscale Devices", Materials Today, October 22, 2003, pp. 22-31.
	GI	Ohlsson, B., et al., "Fabrication and characterization of III-V nanowhiskers", MSS10 Conference - Austria, July 23-27, 2001.
	GJ	Bjork, M.T., et al., "One-dimensional Steeplechase for Electrons Realized", Nano Letters, Vol. 2, No. 2, January 19, 2002, pp. 87-89.

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	HC	Martensson, T., et al., "Fabrication of Individually Seeded Nanowire Arrays by Vapour-Liquid-Solid Growth", Nanotechnology, No. 14, October 17, 2003, pp. 1255-1258.
	HD	Burgess, D.S., "Nanowire Heterostructures Form Tunneling Diodes", Photonics Spectra, Vol. 37, No. 2, pp. 3-5.
	HE	Pettersson, H., et al., "Electrical and Optical Properties of Self-Assembled InAs Quantum Dots in InP Studied by Space-Charge Spectroscopy and Photoluminescence", Phys. Rev. B, Vol. 61, No. 7, February 15, 2000, pp. 4795-4800.
	HF	Ohlsson, B.J., et al., "Growth and characterization of GaAs and InAs nano-whiskers and InAs/GaAs heterostructures", Physica E, No. 13, March 1, 2002, pp. 1126-1130.
	HG	Samuelson, L., et al., "Tunnel-Induced Photon Emission in Semiconductors Using an STM, Physica Scripta, Vol. T42, January 1, 1992, pp. 149-152.
	HH	Seifert, W. et al, "In-Situ Growth of Quantum Dot Structures by the Stranski-Krastanow Growth Mode", Prog. Crys. Growth Charact., Vol. 33, January 1, 1996, pp. 423-471.
	HI	Persson, M., "Tight-Binding Simulation of Nanocrystalline Particles and Whiskers", Tekn lic thesis, Lund University, August 1, 2002.
	HJ	Bjork, M., "Semiconductor Nanowires and Devices", Tekn lic thesis, Lund University, November 1, 2002.

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	IC	Murphy, C.J., et al., "Controlling the Aspect Ratio of Inorganic Nanorods and Nanowires", Advanced Materials, Vol. 14, No. 1, January 4, 2002, pp. 80-82.
	ID	Wagner, R.S., et al., "Vapour-Liquid-Solid Mechanism of Single Crystal Growth", Appl. Phys. Lett., Vol. 4, No. 5, March 1, 1964, pp. 89-90.
	IE	Canham, L.T., "Silicon Quantum Wire Array Fabrication by Electrochemical and Chemical Dissolution of Wafers", Appl. Phys. Lett., Vol. 57, September 3, 1990, pp. 1046-1048.
	IF	Koga, T., et al., "Carrier Pocket Engineering Applied to Strained .....", Appl. Phys. Lett., Vol. 75, October 18, 1999, pp. 2438-2440.
*	IG	Koga, T., et al., "Experimental Proof-of-Principle Investigation of Enhanced $Z_{3d}T$ in (001) Oriented Si/Ge Superlattices", Appl. Phys. Lett., Vol. 77, No. 10, September 4, 2000, pp. 1490-1492.
	IH	Narihiro, M., et al., "Resonant tunneling of electrons via 20 nm scale InAs quantum dot and magnetotunneling spectroscopy of its electronic states", Applied Physics Letters, Vol. 70, No. 1, January 6, 1997, pp. 105-107.
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	IJ	Ferry, D.K., et al., "Transport in Nanostructures", Cambridge University Press, Hardcover, January 1, 1997, pp. 41-45.

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	JD	Givargizov, E., "Growth of Whiskers by the Vapor-Liquid-Solid Mechanism", Current Topics in Material Science, edited by E. Kaldis, Chapter 3, Vol. 1, January 1, 1978, pp. 79-145.
	JE	Mullins, J., "News analysis: using unusable frequencies", IEEE Spectrum, Vol. 39, No. 7, July 1, 2002, pp. 22-23.
	JF	Randall, J.N., et al., "Quantum Dot Devices", in Norman G. Einspruch and William R. Frensley, eds., Heterostructures and Quantum Devices (San Diego, CA: Academic Pres, Inc., 1994) Copyright 1994, p. 420.
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	JH	Hickmott, T.W., et al., "Negative Charge, Barrier Heights, and the Conduction-Ban Discontinuity in $Al_xGa_{1-x}As$ Capacitors", J. Appl. Phys., Vol. 57, April 15, 1985, pp. 2844-2853.
	JI	Mathews, J., et al., "Defects in Epitaxial Multilayers", J. Cryst. Growth, Vol. 27, January 1, 1974, pp. 118-125.
	JJ	Kovtyukhova, N., et al., "Layer-by-Layer Assembly Rectifying Junctions in and on Metal Nanowires", J. Phys. Chem. B., Vol. 105, August 14, 2001, pp. 8762-8769.

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	KE	**Knutson, E. et al., "Aerosol Classification by Electric Mobility: Apparatus, Theory, and Applications", Journal of Aerosol Science, Vol. 6, January 1, 1975, pp. 443-451.**
	KF	**Miller, M. et al., "Serpentine Superlattice: Concept and First Results", Journal of Crystal Growth, Vol. 111, January 1, 1991, pp. 323-327.**
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